CLAIMS

WHAT IS CLAIMED IS:

1 -   A tire P with radial carcass reinforcement, intended for mounting on a rim J at least one of whose seats is inclined outwards and is extended axially on the outside by a hump of small height, said hump comprising an axially outer wall, and comprising two sidewalls and at least one bead with a heel axially on the inside and a bead toe axially on the outside, said bead being provided with a protective rib T extending in the circumferential direction and having at least one point axially further away from the equatorial plane than the axially outer wall of the rim hump in order to protect said rim, wherein, when this tire is mounted on its mounting rim and viewed in meridian cross-section:

-       said circumferential protective rib T is delimited axially on the outside by an axially outer face AB connected to the outer walls of the sidewall and the bead by radially upper and lower faces AD and BC, respectively,

-       the axially outermost point of the axially outer face AB of said protective rib T is a distance e at least equal to 0.5 mm further out than the axially outer wall of the hump of the rim,

-       the radial distance d' between the radially innermost point of the axially outer face of said protective rib T and the radially outermost point of the rim hump, is greater than 4 mm,

-       the angle of the segment joining the end points of the axially outer face of said protective rib T with a direction perpendicular to the rotation axis is at most equal to ± 10°,

-       the entire profile of said lower face BC connecting said axially outer face AB of said protective rib T and the profile of the bead is located radially outside a virtual segment whose ends are on the one hand the radially innermost point B of the axially outer face of said protective rib and, on the other hand, a point C' of the tire bead that is the last point in contact with the hump of the rim.

2 -   The tire according to Claim 1, wherein the distance e is between 1 and 1.5 mm.

3 -   The tire according to Claim 1, wherein the length of the segment joining the end points A and B of said axially outer face AB of said protective rib T, is between 5 and 10 mm.

4 -   The tire according to Claim 1, wherein said angle between the segment joining the end points A and B of said axially outer face AB of said protective rib T and a direction perpendicular to the rotation axis, is at most equal to ± 5°.

5 -   The tire according to Claim 1, wherein said entire upper connecting face AD between said rib T and the sidewall is located radially outside a line Ta passing through the radially outermost point A of said face AB axially on the outside of said protective rib T and tangential to said profile at that point A, and said line Ta makes an angle of at most 55° with the equatorial plane.

6 -   The tire according to Claim 1, wherein said outside faces AB, AD, BC of said protective rib T are reinforced with at least one reinforcement comprising textile reinforcements embedded in an abrasion-resistant rubber mixture.

7 -   The tire according to Claim 1, further comprising a point C at the point of intersection between the outside profile of the bead and a line perpendicular to the rotation axis and tangential to the axially outer face of the hump, wherein the profile of the bead between said point C and C' is axially inside and radially outside a line that extends the axially inner profile of the hump, so as to avoid any contact between the bead and the radially outer part of the hump.

8 -   The tire according to Claim 5, further comprising a point C at the point of intersection between the outside profile of the bead and a line perpendicular to the rotation axis and tangential to the axially outer face of the hump, wherein the profile of the bead between said points C and C' is axially inside and radially outside a line that extends the axially inner profile of the hump, so as to avoid any contact between the bead and the radially outer part of the hump.